

FIG. 1

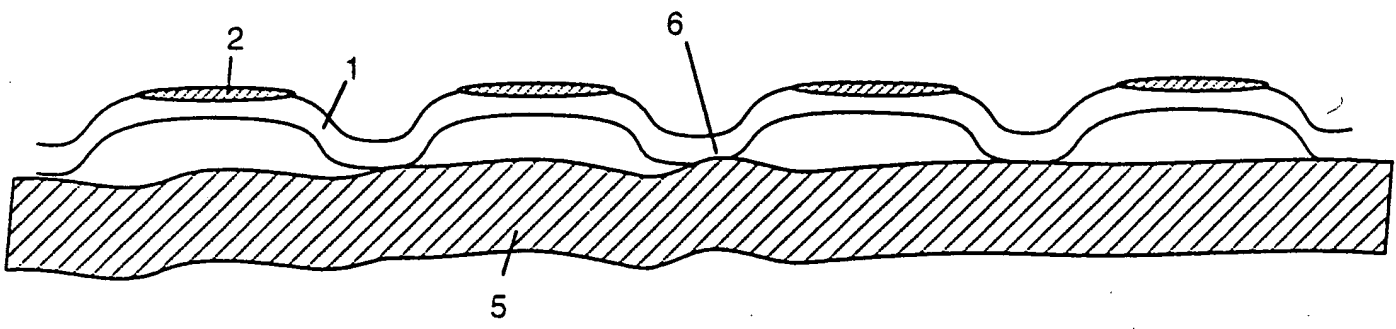


FIG. 2

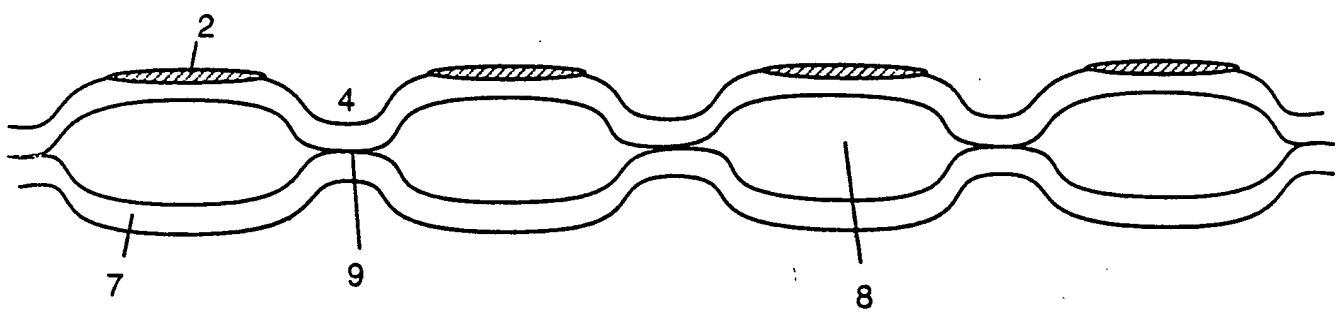


FIG. 3

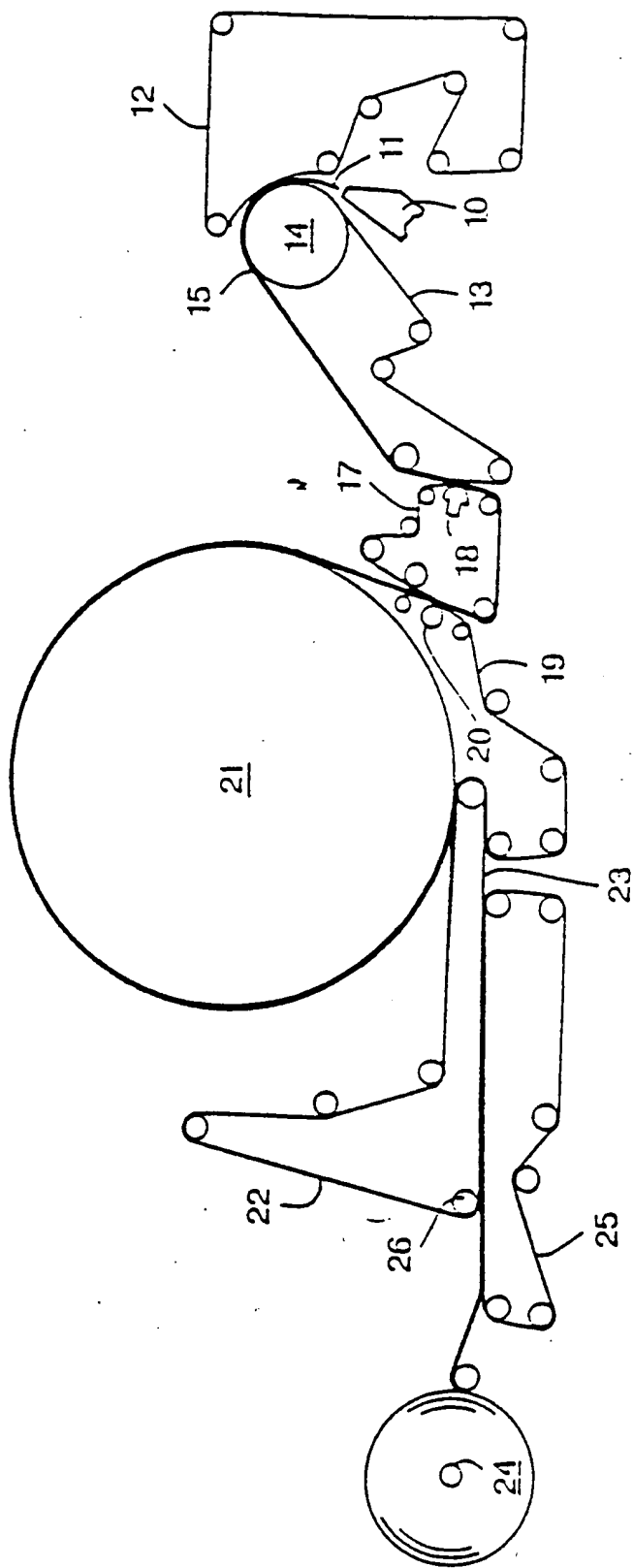


FIG. 4

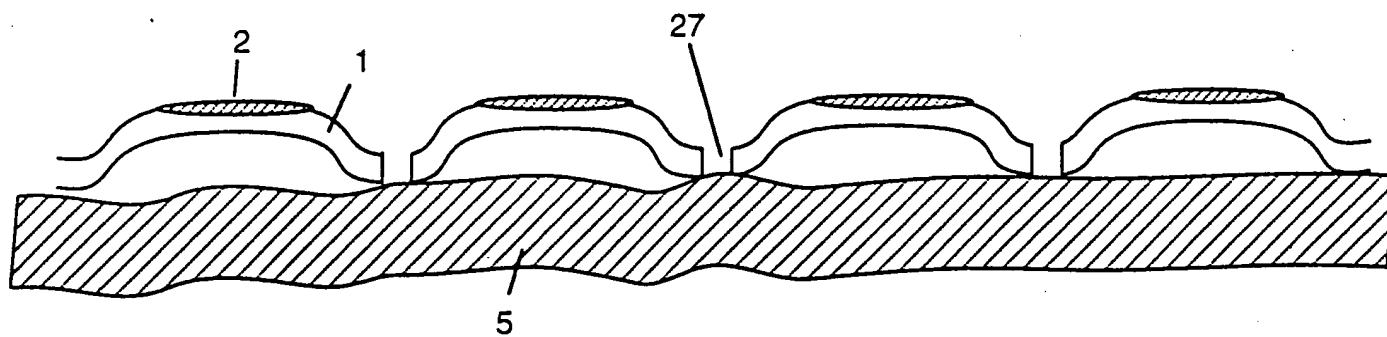


FIG. 5

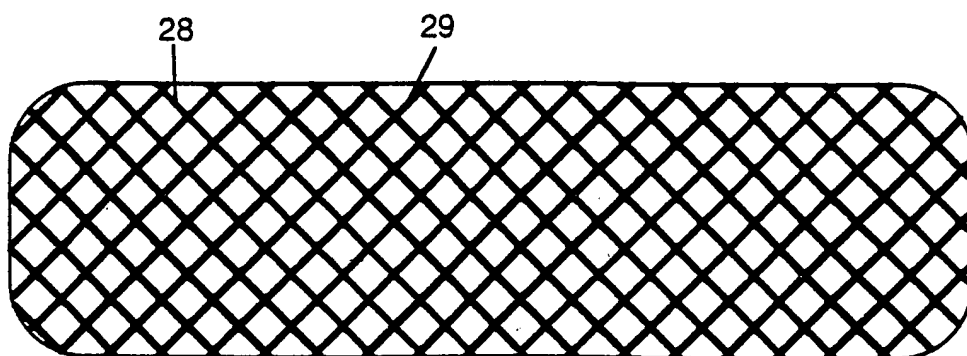


FIG. 6

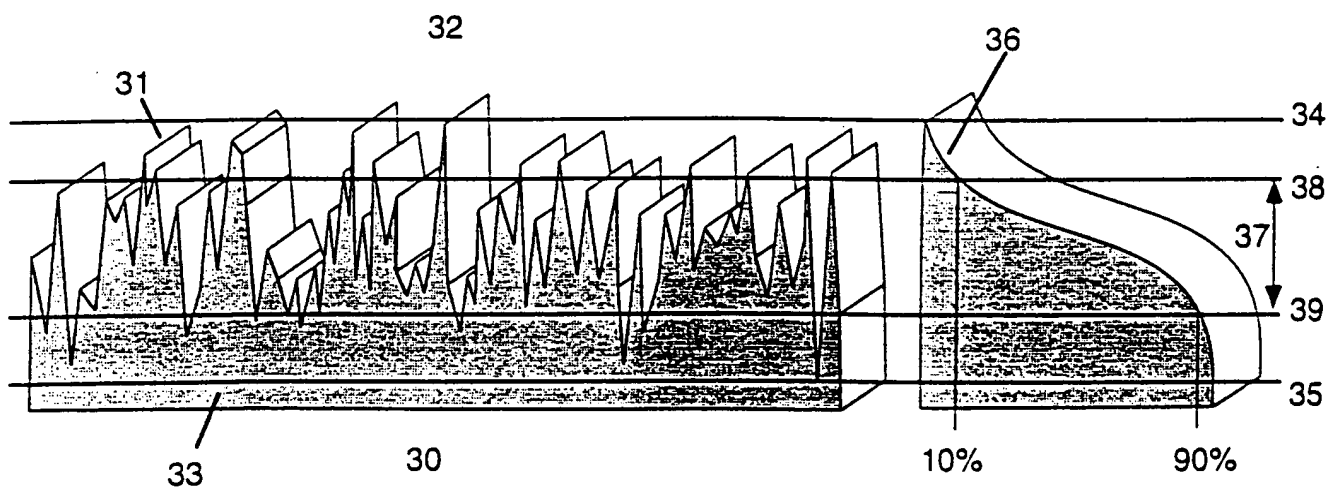


FIG. 7.

P10: 0.509 mm

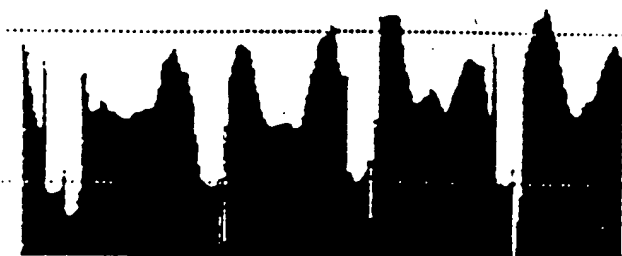


FIG. 8

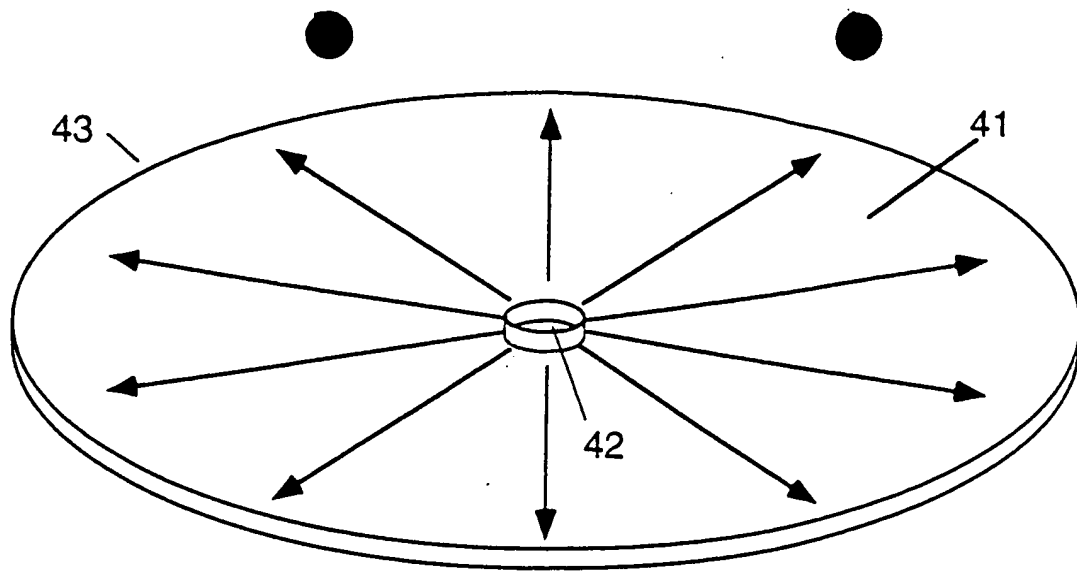


FIG. 9

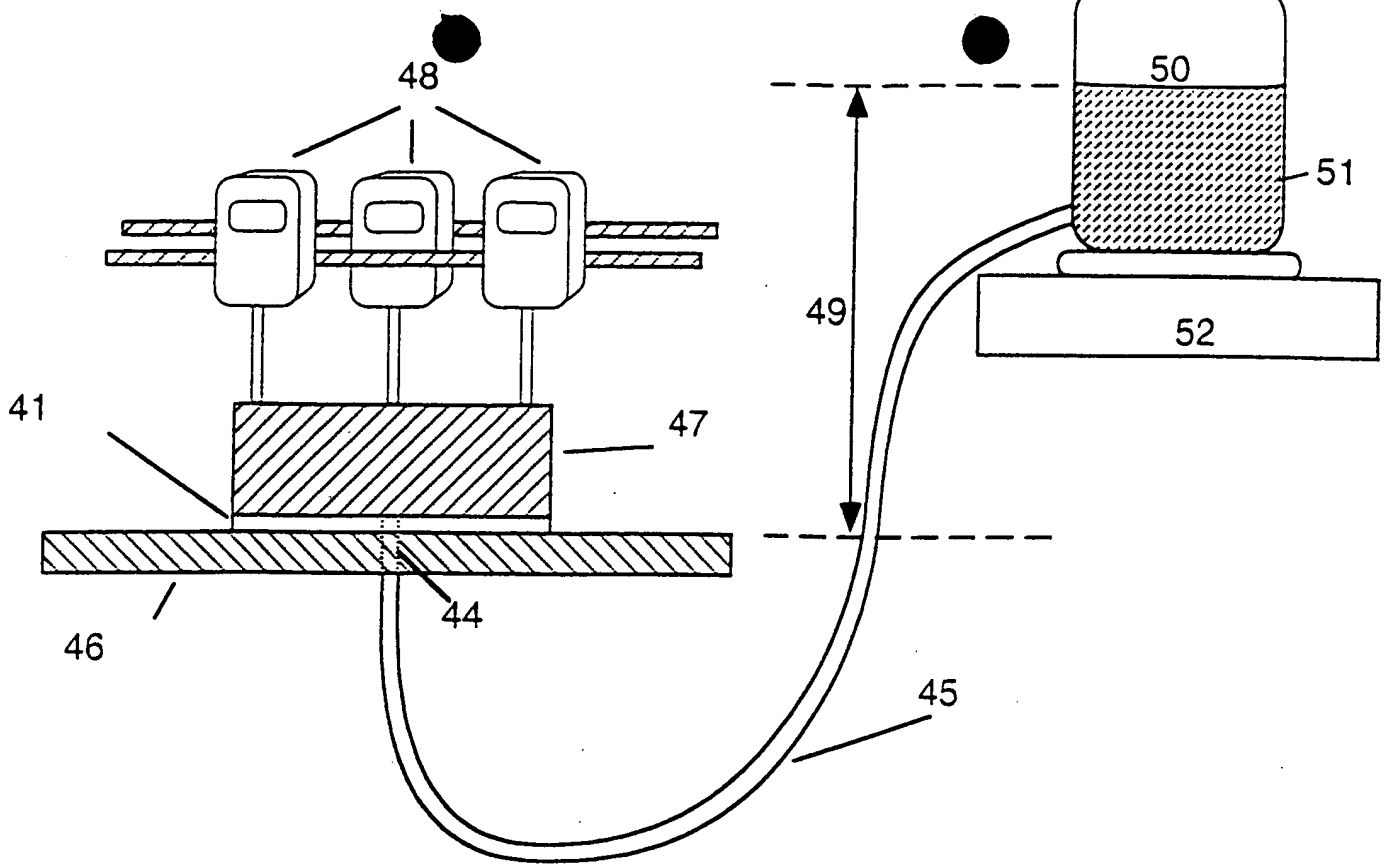


FIG. 10

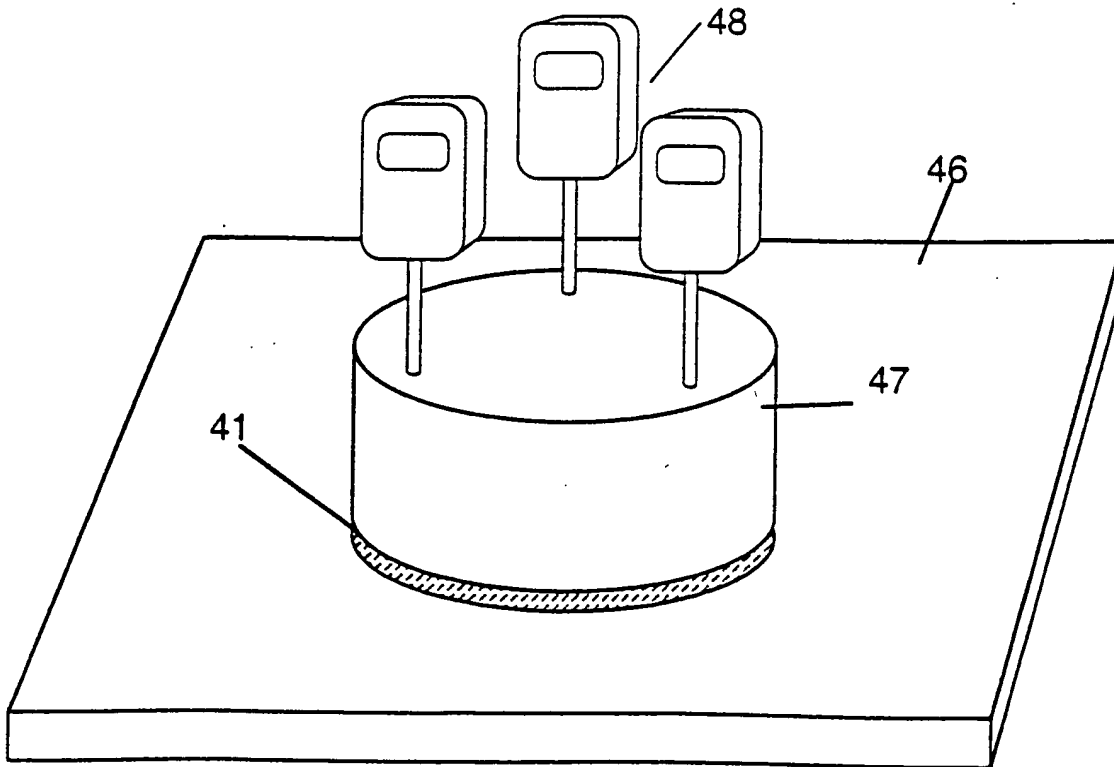


FIG. 11



FIG. 12

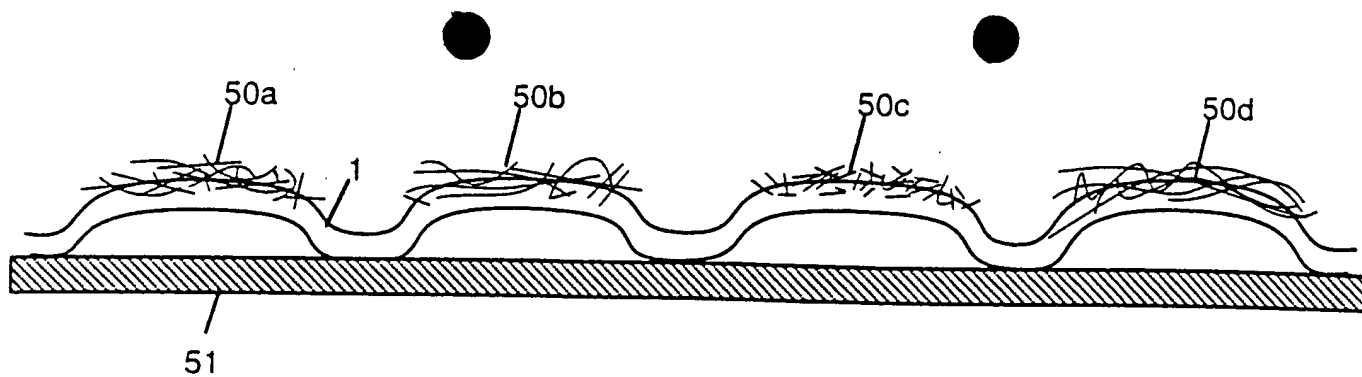


FIG. 13

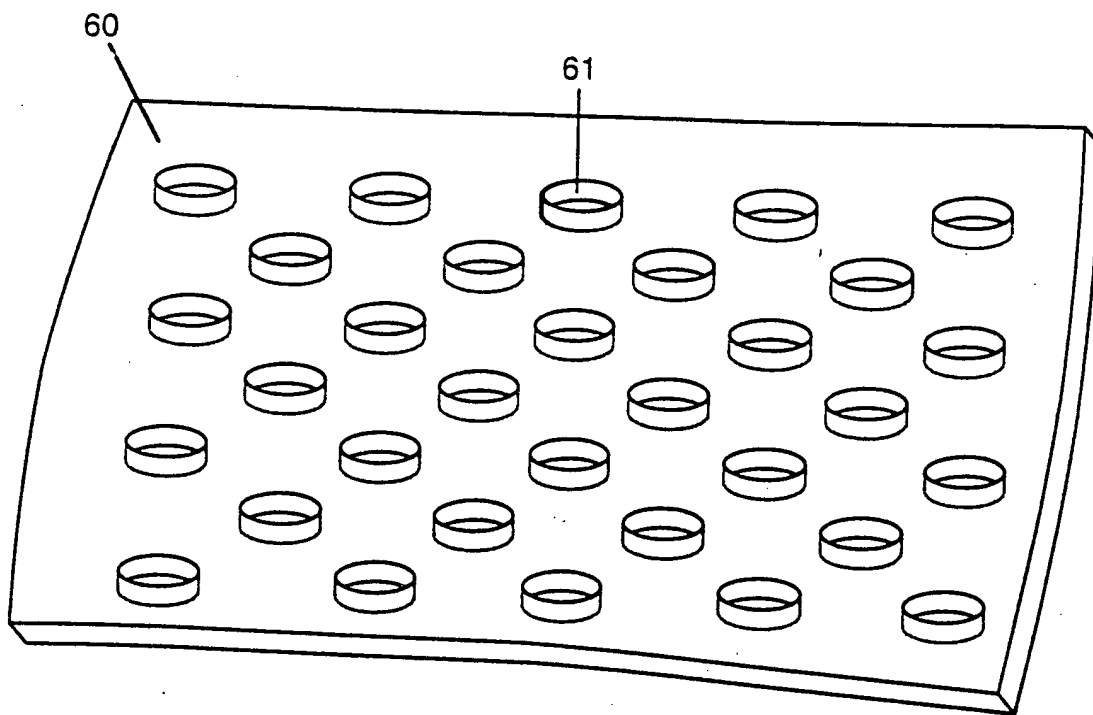


FIG. 14

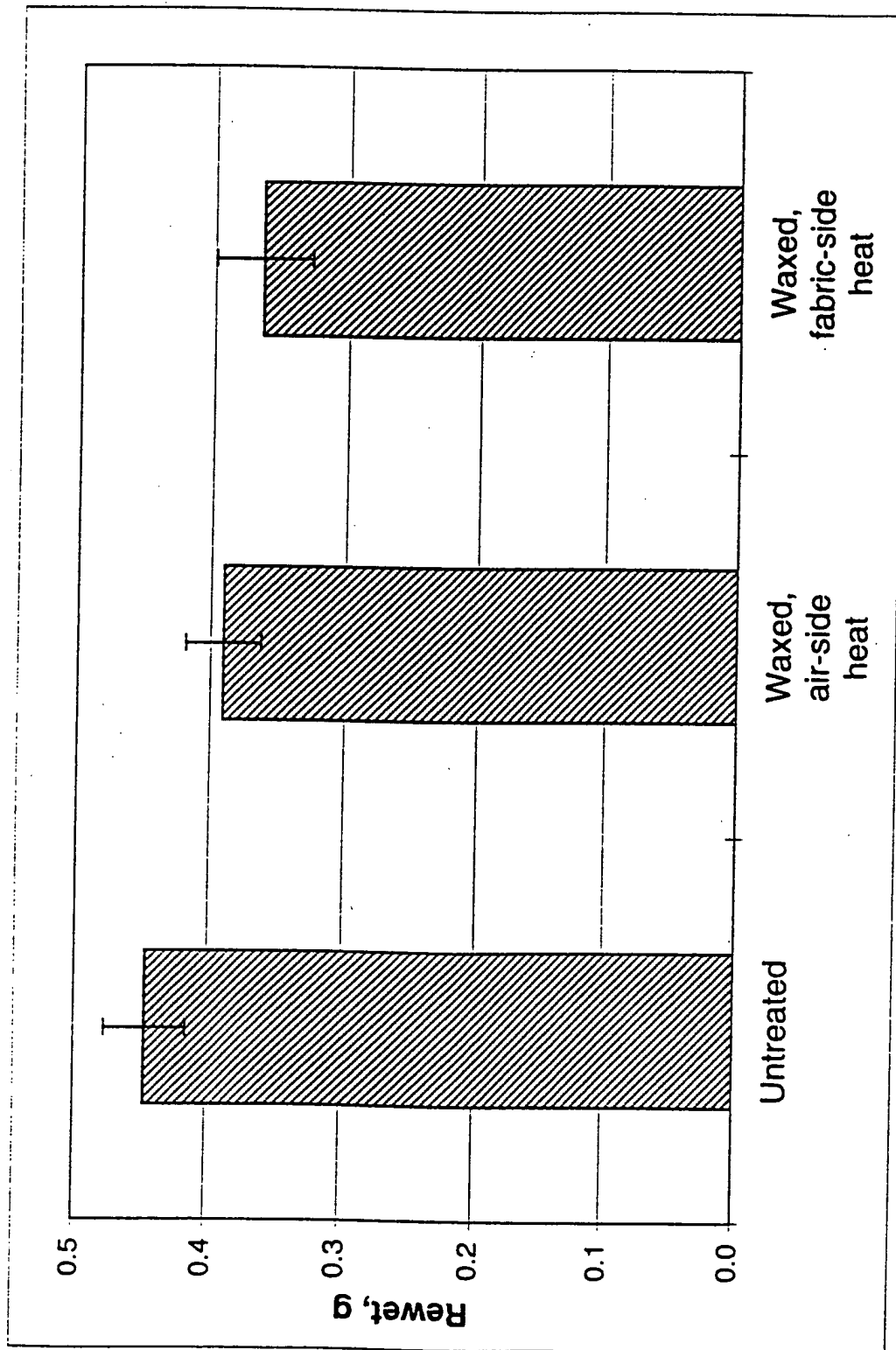


FIG. 15

Properties of Examples 3-6	Example 3	Example 4	Example 5	Example 6
Furnish	NSWK	NSWK	Spruce BCTMP	Spruce BCTMP
Kymene	0	20#/ton	0	20#/ton
Basis weight, gsm	31.7	32.2	32.4	32.7
MD grams dry	1592	2761	1678	2257
MD % stretch dry	7.6	10.0	1.8	1.8
CD grams dry	1671	2459	1540	1872
CD % stretch dry	5.0	5.7	3.5	3.2
GMT grams dry	1631	2606	1608	2056
MD grams wet	106	892	49	826
MD % stretch wet	13.4	8.8	6.8	3.2
CD grams wet	71	715	47	759
CD % stretch wet	9.0	5.3	5.5	3.2
GMT grams wet	87	798	48	792
MD % wet/dry	6.6	32.3	2.9	36.6
CD % wet/dry	4.2	29.1	3.1	40.5
GMT % wet/dry	5.3	30.6	3.0	38.5
1-Sheet TMI mm	.602	.605	.630	.602
10-Sheet TMI mm	3.34	3.68	3.91	3.95
Density, g/cc	.053	.053	.051	.054
Bulk cc/g	19.0	18.8	19.4	18.4
Horizontal Absorb. at 0.075 psi, g/g	7.6	8.7	10.2	10.1
Tilted Absorbency at 0.075 psi, g/g	7.1	7.6	9.7	9.3
Percent Wet Wrinkle Recovery	34.4	52.7	35.0	81.6
Springback	.46	.73	.66	.85
WCB, cc/g	5.2	6	7.1	7.9
LER	.49	.65	.65	.83

FIG. 16

	Example 7	Example 8	Example 9	Example 10
Basis weight, gsm	13.6	17.6	23.9	30.1
MD grams dry	1167	649	1091	1605
MD % stretch dry	1.4	3.7	4.0	5.1
CD grams dry	630	727	1130	1624
CD % stretch dry	2.6	3.5	4.0	4.0
GMT grams dry	857	687	1110	1614
MD grams wet	393	294	465	671
MD % stretch wet	1.5	5.0	5.5	5.5
CD grams wet	223	251	429	586
CD % stretch wet	2.4	3.3	3.5	3.5
GMT grams wet	296	272	447	627
MD % wet/dry	33.7	45.3	42.6	41.8
CD % wet/dry	35.4	34.5	38.0	36.1
GMT % wet/dry	34.5	40.0	40.3	38.8
1-Sheet TMI mm	.335	.533	.610	.655
10-Sheet TMI mm	1.94	2.91	4.00	4.55
Bulk cc/g	24.6	30.3	25.5	21.8
Horizontal Absorb. at 0.075 psi, g/g	12.2	13.3	13.0	11.8
Tilted Absorbency at 0.075 psi, g/g	11.4	11.8	11.3	10.2
Density, g/cc	.041	.033	.039	.046
Percent Wet Wrinkle Recovery	73.8	76.7	85.0	86.7
Springback	NA	.791	.841	.838
WCB, cc/g	NA	8.2	8.1	8.0
LER	NA	.802	.783	.808

FIG. 17